Symbol	Name	Synonyms	Organism
CSF2	colony stimulating factor 2 (granulocyte-macrophage)	Colony-stimulating factor, CSF, GMCSF, GM-CSF, Granulocyte-macrophage colony-stimulating factor precursor, MGC131935, MGC138897, Molgramostin, Sargramostim	Homo sapiens

Wiki Genes	edit this page **new**
UniProt	P04141, Q2VPI8, Q8NFI6
PDB Structure	1CSG, 2GMF
OMIM	138960
NCBI Gene	1437
NCBI RefSeq	NP_000749
NCBI RefSeq	NM_000758
NCBI UniGene	1437
Nature Pathways	P04141

Homologues of CSF2 ..

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Granulocyte-colony stimulating factor (G-CSF) and granulocyte-macrophage-colony stimulating factor (GM-CSF) belong to a family of glycoprotidic growth factors required for the survival, growth and differentiation of haematopoietic precursors and which affect the function of circulating mature cells. [1989]

The haematopoietic factors granulocyte-macrophage colony-stimulating factor (GM-CSF) and granulocyte colony-stimulating factor (G-CSF) prime neutrophils to be more responsive to a variety of stimuli. [1988]

The effect of these supernatants as a source of recombinant IL-3 was compared to that of recombinant human granulocyte-macrophage colony-stimulating factor (GM-CSF) and granulocyte colony-stimulating factor (G-CSF) as well as to that of medium conditioned by phytohemagglutinin-stimulated leukocytes. [1987]

Stimulatory activity was significantly greater than in the presence of GM-CSF and was comparable to that of granulocyte colony-stimulating factor (G-CSF), interleukin 3 (IL-3), and 5637 cell line supernatant (SN). [1992]

We demonstrate that U87MG can be induced to increase its production of GM-CSF and G-CSF by exposure to TNF-alpha while U373MG is induced to produce GM-CSF but not G-CSF. [1991]

Production of TNF [?] and monocyte-mediated cytotoxicity against U937 tumor cells was significantly increased in monocytes derived from patients receiving GM-CSF, as compared to those from the control group, while no effect was detectable in monocytes from patients with G-CSF therapy. [1995]

IL-4 stimulates G-CSF-induced colony-forming unit-granulocyte (CFU-G) and inhibits all colony types induced by GM-CSF and IL-3 in the HLA-DR++ population, but not in the HLA-DR+ population. [1993]

We have now developed a method for obtaining a large number of DCs by treating the granulocyte colony-stimulating factor (G-CSF) mobilized peripheral blood stem cells (PBSCs) from healthy donors with granulocyte-macrophage colony-stimulating factor (GM-CSF), interleukin-4 (IL-4), and tumor necrosis factor-alpha (TNF-alpha). [2001]

However, SCF potentiated the stimulatory effect of GM-CSF, G-CSF, and IL-3 on both 3H-TdR incorporation and colony formation. [1992]

CD34+ cells enriched from bone marrow were cultured for up to 5 weeks in interleukin-3 (IL-3), granulocyte-macrophage colony-stimulating factor (GM-CSF) and granulocyte colony-stimulating factor (G-CSF) with or without stem cell factor (SCF) (also termed c-kit ligand). [1993]

Our data also show that G-CSF- and GM-CSF-stimulated monocytes can mediate cytotoxicity of target leukemia cells comparable to that of IFN-gamma-stimulated monocytes. [1995]

Gamma-interferon (IFN-gamma) and granulocyte-macrophage colony-stimulating factor (GM-CSF) have been reported to suppress NAP induction with G-CSF. [1992]

In the next 11 patients, stem cells were harvested after CT + granulocyte colony-stimulating factor (G-CSF) and lymphocytes were harvested after CT + granulocyte-macrophage colony-stimulating factor (GM-CSF) and interleukin-2. [2002]

We examined the ability of proinflammatory cytokines such as TNFalpha, IL-1, and G-CSF to induce this process